**KEY FEATURES**

- 15” bass loudspeaker and 2” exit compression driver combination
- Excellent power handling: 350 w AES (L.F. unit) and 90 w AES (H.F. unit)
- Extended and linear frequency response (25-20000 Hz)
- High sensitivity: 99 dB (L.F. unit) and 105 dB (H.F. unit)
- Low weight (common neodymium magnet system for both units)
- Bass loudspeaker designed for compact bass-reflex cabinets

**GENERAL DESCRIPTION**

This 15” coaxial loudspeaker is intended for the most demanding professional applications. Its low frequency unit features a 4” (100 mm) edgewound aluminium ribbon voice coil capable of handle 350 w AES. This bass unit has been optimized in order to fit in with the most compact bass-reflex systems. The high frequency unit uses a 2.8” (72.2 mm) aluminium ribbon voice coil and a composite structure diaphragm, that is to say, a titanium dome and polyester surround combination. All these components give as a result a coherent and extended frequency response with low distortion that ranges from 25 Hz up to 20 kHz. Moreover, the use of a common neodymium magnet system for both units reduces the weight to 6.8 kg.

**FREQUENCY RESPONSE AND DISTORTION CURVES**

- Predicted low frequency response
- Frequency response out of axis

**FREQUENCY RESPONSE OUT OF AXIS**

Note: on axis filtered frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.

**PREDICTED LOW FREQUENCY RESPONSE**

Note: bass-reflex cabinet, Vb=100 l, f_b=42 Hz

**FREQUENCY RESPONSE OF LF & HF UNITS**

Note: on axis frequency response of low and high frequency units, 1w @ 1m.
**TECHNICAL SPECIFICATIONS**

**L.F. UNIT**
- Nominal diameter: 380 mm. 15 in.
- Rated impedance: 8 ohms.
- Minimum impedance: 7.6 ohms.
- Power capacity*: 350 w AES
- Program Power: 700 w
- Sensitivity: 99 dB 2.83v @ 1m @ 2π
- Frequency range: 25-3500 Hz
- Recom. enclosure vol.: 60 / 180 | 2.14 / 6.35 ft³
- Voice coil diameter: 100 mm. 4 in.
- Magnetic assembly weight: 4.2 kg. 9.24 lb.
- BL factor: 18.2 N/A
- Voice coil length: 16 mm.
- Air gap height: 9 mm.
- X damage: 28 mm.

**H.F. UNIT**
- Rated impedance: 16 ohms.
- Minimum impedance: 13.5 ohms.@ 3.5 kHz
- Power capacity: 90 w AES above 1 kHz
- Frequency range: 0.5 - 20 kHz
- Sensitivity 1w @ 1m: 105 dB
- Voice coil diameter: 72.2 mm. 2.87 in.
- Flux density: 1.6 T
- BL factor: 15.3 N/A
- Dispersion: 80° conical

**THIELE-SMALL PARAMETERS**
- Resonant frequency, fs: 33 Hz
- D.C. Voice coil resistance, Re: 6.8 ohms.
- Mechanical Quality Factor, Qms: 7.50
- Electrical Quality Factor, Qes: 0.30
- Total Quality Factor, Qts: 0.29
- Equivalent Air Volume to Cms, Vas: 359 l
- Mechanical Compliance, Cms: 326 μm / N
- Mechanical Resistance, Rms: 2 kg / s
- Efficiency, ηo (%): 4
- Effective Surface Area, Sd (m²): 0.088 m²
- Maximum Displacement, Xmax: 4 mm
- Displacement Volume, Vd: 350 cm³
- Voice Coil Inductance, Le @ 1 kHz: 1.6 mH

**MATERIALS**
- **L.F. UNIT**
  - Basket: Die cast aluminium
  - Cone: Paper
  - Surround: Plasticised cloth
  - Voice coil: Edgewound aluminium ribbon
  - Magnet: Neodymium
- **H.F. UNIT**
  - Dome: Titanium
  - Surround: Polyester
  - Voice coil: Edgewound aluminium ribbon
  - Voice coil former: Kapton

**DIMENSION DRAWINGS**

**MOUNTING INFORMATION**
- Overall diameter: 388 mm. 15.28 in.
- Bolt circle diameter: 370 mm. 14.56 in.
- Baffle cutout diameter:
  - Front mount: 352 mm. 13.85 in.
  - Rear mount: 352 mm. 13.85 in.
- Depth: 181 mm. 7.13 in.
- Volume displaced by driver: 1.6 l 0.25 ft³
- Shipping weight: 7.4 kg. 16.28 lb.

**Notes:**
- *The power capacity is determined according to AES2-1984 (r2003) standard.
- Program power is defined as the transducer’s ability to handle normal music program material.

**Notes:**
- **T-S parameters are measured after an exercise period using a preconditioning power test.**
  - The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).